טסטים שניסינו :

תוצאות טסט 1: עם טייטל

[('best marvel movie', 4.203593492507935, 0.556), ('How do kids come to world?', 5.816694498062134, 0.081), ('Information retrieval', 1.911975383758545, 0.757), ('LinkedIn', 0.4362969398498535, 0.478), ('How to make coffee?', 2.291675090789795, 0.457), ('Ritalin', 0.46707916259765625, 0.54), ('How to make wine at home?', 4.859596252441406, 0.548), ('Most expensive city in the world', 8.028701543807983, 0.293), ('India', 1.2640478610992432, 0.333), ('how to make money fast?', 3.4810638427734375, 0.967), ('Netflix', 0.6389894485473633, 0.51), ('Apple computer', 1.6747775077819824, 0.709), ('The Simpsons', 0.6109871864318848, 0.548), ('World cup', 5.125702619552612, 1.0), ('How to lose weight?', 1.3191063404083252, 0.252), ('Java', 0.560476541519165, 0.844), ('Air Jordan', 2.0620009899139404, 0.279), ('how to deal with depression?', 1.4222216606140137, 0.21), ('How do you make gold', 3.0526123046875, 0.288), ('Marijuana', 0.453305721282959, 0.252), ('How to make hummus', 2.169957399368286, 0.656), ('Winter', 1.1586766242980957, 0.503), ('Rick and Morty', 0.8987557888031006, 0.515), ('Natural Language processing', 3.097674608230591, 0.671), ('World Cup 2022', 5.690224647521973, 0.697), ('Dolly the sheep', 0.9599490165710449, 0.407), ('Cigarettes', 0.4653606414794922, 0.335), ('What is the best place to live in?', 6.8103859424591064, 0.0), ('Elon musk', 0.9626796245574951, 0.592), ('How do you breed flowers?', 0.9628753662109375, 0.036)]

0.4771333333333334 ממוצע precision

2.428581468264262 ממוצע זמן

תוצאות טסט 2 (עם אנקור):

[('best marvel movie', 4.362314701080322, 0.636), ('How do kids come to world?', 6.456763982772827, 0.094), ('Information retrieval', 1.92332124710083, 0.432), ('LinkedIn', 0.5055263042449951, 0.571), ('How to make coffee?', 2.612255811691284, 0.439), ('Ritalin', 0.5093929767608643, 0.582), ('How to make wine at home?', 5.013236045837402, 0.628), ('Most expensive city in the world', 8.74325966835022, 0.293), ('India', 1.384260892868042, 0.333), ('how to make money fast?', 3.5393283367156982, 0.615), ('Netflix', 0.5444321632385254, 1.0), ('Apple computer', 1.4355006217956543, 0.726), ('The Simpsons', 0.5347287654876709, 0.571), ('World cup', 5.919832706451416, 1.0), ('How to lose weight?', 1.3671679496765137, 0.316), ('Java', 0.5034754276275635, 0.876), ('Air Jordan', 2.3123772144317627, 0.137), ('how to deal with depression?', 1.5812180042266846, 0.333), ('How do you make gold', 3.2535858154296875, 0.29), ('Marijuana', 0.5230321884155273, 0.265), ('How to make hummus', 2.1996631622314453, 0.656), ('Winter', 1.1345438957214355, 0.25), ('Rick and Morty', 1.1104235649108887, 0.758), ('Natural Language processing', 3.153012275695801, 0.717), ('World Cup 2022', 6.489655494689941, 0.525), ('Dolly the sheep', 0.8521342277526855, 0.25), ('Cigarettes', 0.6207025051116943, 0.495), ('What is the best place to live in?', 7.592658758163452, 0.0), ('Elon musk', 0.7988784313201904, 0.441), ('How do you breed flowers?', 1.1279292106628418, 0.034)]

0.47543333333333343

2.603487078348796

תוצאות טסט 3- הפרדה בין מילה אחת ליותר:

[('best marvel movie', 4.2410314083099365, 0.636), ('How do kids come to world?', 6.3291332721710205, 0.094), ('Information retrieval', 2.083336591720581, 0.432), ('LinkedIn', 0.6836121082305908, 1.0), ('How to make coffee?', 2.4712839126586914, 0.439), ('Ritalin', 0.5417184829711914, 0.806), ('How to make wine at home?', 5.061668872833252, 0.628), ('Most expensive city in the world', 9.446746349334717, 0.293), ('India', 1.5512080192565918, 0.741), ('how to make money fast?', 3.6129276752471924, 0.615), ('Netflix', 0.6792271137237549, 0.531), ('Apple computer', 1.5036287307739258, 0.726), ('The Simpsons', 0.6874828338623047, 0.371), ('World cup', 5.871756553649902, 1.0), ('How to lose weight?', 1.4827678203582764, 0.316), ('Java', 0.6587107181549072, 0.703), ('Air Jordan', 2.2960007190704346, 0.137), ('how to deal with depression?', 1.6568803787231445, 0.333), ('How do you make gold', 3.253877639770508, 0.29), ('Marijuana', 0.6512396335601807, 0.688), ('How to make hummus', 2.2955398559570312, 0.656), ('Winter', 1.28145170211792, 0.409), ('Rick and Morty', 1.1161794662475586, 0.758), ('Natural Language processing', 3.3501625061035156, 0.717), ('World Cup 2022', 6.489377021789551, 0.525), ('Dolly the sheep', 1.0689811706542969, 0.25), ('Cigarettes', 0.5692098140716553, 0.725), ('What is the best place to live in?', 7.470132350921631, 0.0), ('Elon musk', 1.0066189765930176, 0.441), ('How do you breed flowers?', 1.5507681369781494, 0.034)]

0.5098

2.6987553278605145

טסט 4: עם pv במקום pr על הבודי

[('best marvel movie', 4.30682635307312, 0.608), ('How do kids come to world?', 6.715180397033691, 0.091), ('Information retrieval', 1.9044873714447021, 0.666), ('LinkedIn', 0.5052268505096436, 1.0), ('How to make coffee?', 2.6598570346832275, 0.4), ('Ritalin', 0.46190404891967773, 0.806), ('How to make wine at home?', 5.220735311508179, 0.487), ('Most expensive city in the world', 9.429673910140991, 0.073), ('India', 1.406517505645752, 0.741), ('how to make money fast?', 3.7581710815429688, 0.739), ('Netflix', 0.47484517097473145, 0.531), ('Apple computer', 1.669804573059082, 0.771), ('The Simpsons', 0.479320764541626, 0.382), ('World cup', 6.1036529541015625, 0.167), ('How to lose weight?', 1.3625566959381104, 0.318), ('Java', 0.44918251037597656, 0.687), ('Air Jordan', 2.2986862659454346, 0.413), ('how to deal with depression?', 1.5691580772399902, 0.294), ('How do you make gold', 3.399817705154419, 0.11), ('Marijuana', 0.4485611915588379, 0.69), ('How to make hummus', 2.250528335571289, 0.663), ('Winter', 1.1971979141235352, 0.409), ('Rick and Morty', 1.1940209865570068, 0.683), ('Natural Language processing', 3.2374351024627686, 0.621), ('World Cup 2022', 6.468987703323364, 0.487), ('Dolly the sheep', 0.89620041847229, 0.239), ('Cigarettes', 0.41293907165527344, 0.726), ('What is the best place to live in?', 7.480868101119995, 0.0), ('Elon musk', 0.805769681930542, 0.402), ('How do you breed flowers?', 1.093468427658081, 0.025)]

0.4743

2.655386050542196

טסט 5- יותר ממילה 1- התחשבות גם באנקור וגם בטייטל כשזה יותר מילים

[('best marvel movie', 29.139163732528687, 0.635), ('How do kids come to world?', 7.102127552032471, 0.089), ('Information retrieval', 1.937821388244629, 0.683), ('LinkedIn', 0.42888569831848145, 1.0), ('How to make coffee?', 2.6097259521484375, 0.46), ('Ritalin', 0.45964741706848145, 0.806), ('How to make wine at home?', 5.634443998336792, 0.628), ('Most expensive city in the world', 10.212564468383789, 0.293), ('India', 1.4849660396575928, 0.741), ('how to make money fast?', 3.801363706588745, 0.839), ('Netflix', 0.521334171295166, 0.531), ('Apple computer', 1.583827257156372, 0.761), ('The Simpsons', 0.445911169052124, 0.382), ('World cup', 6.63892936706543, 1.0), ('How to lose weight?', 1.3937294483184814, 0.316), ('Java', 0.4462597370147705, 0.687), ('Air Jordan', 2.338292121887207, 0.199), ('how to deal with depression?', 1.6985588073730469, 0.333), ('How do you make gold', 3.5095231533050537, 0.29), ('Marijuana', 0.5239934921264648, 0.69), ('How to make hummus', 2.479229688644409, 0.656), ('Winter', 1.0690808296203613, 0.409), ('Rick and Morty', 1.0007548332214355, 0.478), ('Natural Language processing', 3.1560821533203125, 0.693), ('World Cup 2022', 7.001906633377075, 0.701), ('Dolly the sheep', 0.9480464458465576, 0.299), ('Cigarettes', 0.4323110580444336, 0.726), ('What is the best place to live in?', 8.176862716674805, 0.0), ('Elon musk', 0.6886587142944336, 0.424), ('How do you breed flowers?', 1.0332162380218506, 0.034)]

0.5261

3.5965739329655966

טסט 6- במילה 1- תתחשב רק בטייטל. משקל טייטל =3

[('best marvel movie', 8.633570194244385, 0.621), ('How do kids come to world?', 6.0945093631744385, 0.081), ('Information retrieval', 1.8380210399627686, 0.757), ('LinkedIn', 0.5662369728088379, 1.0), ('How to make coffee?', 2.3241629600524902, 0.459), ('Ritalin', 0.551088809967041, 1.0), ('How to make wine at home?', 4.845768213272095, 0.628), ('Most expensive city in the world', 8.952902793884277, 0.293), ('India', 1.472306728363037, 0.589), ('how to make money fast?', 3.4809982776641846, 0.876), ('Netflix', 0.6672244071960449, 0.825), ('Apple computer', 1.636979579925537, 0.762), ('The Simpsons', 0.6473801136016846, 0.708), ('World cup', 6.044541835784912, 1.0), ('How to lose weight?', 1.5559730529785156, 0.316), ('Java', 0.6465976238250732, 0.716), ('Air Jordan', 2.1579477787017822, 0.196), ('how to deal with depression?', 1.5537009239196777, 0.306), ('How do you make gold', 3.1635050773620605, 0.288), ('Marijuana', 0.6700835227966309, 0.283), ('How to make hummus', 2.1919264793395996, 0.656), ('Winter', 1.173279047012329, 0.378), ('Rick and Morty', 1.0418589115142822, 0.577), ('Natural Language processing', 2.9837563037872314, 0.695), ('World Cup 2022', 6.368680715560913, 0.714), ('Dolly the sheep', 0.9508316516876221, 0.277), ('Cigarettes', 0.5490682125091553, 0.199), ('What is the best place to live in?', 7.0630834102630615, 0.0), ('Elon musk', 0.9113790988922119, 0.419), ('How do you breed flowers?', 1.1786003112792969, 0.034)]

0.5217666666666667

2.7305321137110394

טסט 7- במילה 1- תתחשב רק באנקור. משקל טייטל =3

[('best marvel movie', 32.83332395553589, 0.621), ('How do kids come to world?', 6.044748544692993, 0.081), ('Information retrieval', 1.688812255859375, 0.757), ('LinkedIn', 0.4898681640625, 1.0), ('How to make coffee?', 2.2263107299804688, 0.459), ('Ritalin', 0.43645524978637695, 0.806), ('How to make wine at home?', 4.768336057662964, 0.628), ('Most expensive city in the world', 8.636396169662476, 0.293), ('India', 1.3032760620117188, 0.742), ('how to make money fast?', 3.4163384437561035, 0.876), ('Netflix', 0.45997047424316406, 0.531), ('Apple computer', 1.4523773193359375, 0.762), ('The Simpsons', 0.4864943027496338, 0.371), ('World cup', 5.781696796417236, 1.0), ('How to lose weight?', 1.2333993911743164, 0.316), ('Java', 0.4367668628692627, 0.703), ('Air Jordan', 2.010277032852173, 0.196), ('how to deal with depression?', 1.4672541618347168, 0.306), ('How do you make gold', 3.1237874031066895, 0.288), ('Marijuana', 0.4010579586029053, 0.689), ('How to make hummus', 2.088606834411621, 0.656), ('Winter', 1.0404207706451416, 0.409), ('Rick and Morty', 0.9320504665374756, 0.577), ('Natural Language processing', 3.0592944622039795, 0.695), ('World Cup 2022', 6.2575273513793945, 0.714), ('Dolly the sheep', 0.8573458194732666, 0.277), ('Cigarettes', 0.4387345314025879, 0.724), ('What is the best place to live in?', 6.870172023773193, 0.0), ('Elon musk', 0.7454109191894531, 0.419), ('How do you breed flowers?', 0.9257078170776367, 0.034)]

0.5310000000000001

3.3970739444096885

טסט 8- אותו דבר כמו למעלה. משקל טייטל =2

[('best marvel movie', 6.673722267150879, 0.635), ('How do kids come to world?', 5.902031898498535, 0.089), ('Information retrieval', 1.7167658805847168, 0.683), ('LinkedIn', 0.3891873359680176, 1.0), ('How to make coffee?', 2.2444560527801514, 0.46), ('Ritalin', 0.4402201175689697, 0.806), ('How to make wine at home?', 4.896250247955322, 0.628), ('Most expensive city in the world', 8.511545181274414, 0.293), ('India', 1.4116511344909668, 0.742), ('how to make money fast?', 3.3714089393615723, 0.839), ('Netflix', 0.49399471282958984, 0.531), ('Apple computer', 1.418318748474121, 0.761), ('The Simpsons', 0.4083595275878906, 0.371), ('World cup', 5.71522068977356, 1.0), ('How to lose weight?', 1.2790892124176025, 0.316), ('Java', 0.4747955799102783, 0.703), ('Air Jordan', 1.9873552322387695, 0.199), ('how to deal with depression?', 1.3882403373718262, 0.333), ('How do you make gold', 2.972562313079834, 0.29), ('Marijuana', 0.4571819305419922, 0.689), ('How to make hummus', 2.07893705368042, 0.656), ('Winter', 1.0136559009552002, 0.409), ('Rick and Morty', 0.9479079246520996, 0.478), ('Natural Language processing', 3.127700090408325, 0.693), ('World Cup 2022', 6.202815055847168, 0.701), ('Dolly the sheep', 0.8297386169433594, 0.299), ('Cigarettes', 0.3501899242401123, 0.724), ('What is the best place to live in?', 7.043439626693726, 0.0), ('Elon musk', 0.6810190677642822, 0.424), ('How do you breed flowers?', 0.9562497138977051, 0.034)]

0.5262

2.51280034383138

טסט 9- התחשבות גם בpv:

[('best marvel movie', 30.64348816871643, 0.567), ('How do kids come to world?', 5.938830137252808, 0.29), ('Information retrieval', 1.9128103256225586, 0.573), ('LinkedIn', 0.46204376220703125, 1.0), ('How to make coffee?', 2.153531551361084, 0.419), ('Ritalin', 0.5220737457275391, 0.806), ('How to make wine at home?', 4.610004186630249, 0.611), ('Most expensive city in the world', 8.467727899551392, 0.288), ('India', 1.3831760883331299, 0.574), ('how to make money fast?', 3.3929615020751953, 0.718), ('Netflix', 0.4354889392852783, 1.0), ('Apple computer', 1.462857961654663, 0.781), ('The Simpsons', 0.548271894454956, 0.532), ('World cup', 5.758572101593018, 0.25), ('How to lose weight?', 1.1471140384674072, 0.298), ('Java', 0.7612113952636719, 0.286), ('Air Jordan', 2.1063899993896484, 0.261), ('how to deal with depression?', 1.4407968521118164, 0.313), ('How do you make gold', 2.9507694244384766, 0.171), ('Marijuana', 0.41522669792175293, 0.72), ('How to make hummus', 2.0957913398742676, 0.728), ('Winter', 1.0083422660827637, 0.264), ('Rick and Morty', 0.9471766948699951, 0.631), ('Natural Language processing', 2.891153573989868, 0.804), ('World Cup 2022', 6.159704685211182, 0.852), ('Dolly the sheep', 0.8518698215484619, 0.317), ('Cigarettes', 0.39029717445373535, 0.736), ('What is the best place to live in?', 6.757831335067749, 0.0), ('Elon musk', 0.7111589908599854, 0.457), ('How do you breed flowers?', 1.0825598239898682, 0.038)]

0.5095

3.313641079266866

טסט 10- תתחשב בpv אם הוא גדול שווה מהPR המנורמל:

[('best marvel movie', 4.726336717605591, 0.611), ('How do kids come to world?', 6.986674070358276, 0.048), ('Information retrieval', 1.9544000625610352, 0.757), ('LinkedIn', 0.36233949661254883, 1.0), ('How to make coffee?', 2.5483272075653076, 0.454), ('Ritalin', 0.4475595951080322, 0.806), ('How to make wine at home?', 5.430390119552612, 0.628), ('Most expensive city in the world', 9.9300377368927, 0.293), ('India', 1.4489800930023193, 0.742), ('how to make money fast?', 3.7940945625305176, 0.557), ('Netflix', 0.5344641208648682, 1.0), ('Apple computer', 1.4469192028045654, 0.809), ('The Simpsons', 0.48299407958984375, 0.371), ('World cup', 6.5564000606536865, 1.0), ('How to lose weight?', 1.3247742652893066, 0.322), ('Java', 0.4432246685028076, 0.703), ('Air Jordan', 2.229329824447632, 0.196), ('how to deal with depression?', 1.4997615814208984, 0.306), ('How do you make gold', 3.674044609069824, 0.288), ('Marijuana', 0.4224100112915039, 0.69), ('How to make hummus', 2.334862470626831, 0.649), ('Winter', 1.1279046535491943, 0.409), ('Rick and Morty', 0.8732588291168213, 0.447), ('Natural Language processing', 3.3015213012695312, 0.695), ('World Cup 2022', 6.907829999923706, 0.62), ('Dolly the sheep', 0.8419017791748047, 0.259), ('Cigarettes', 0.33577847480773926, 0.724), ('What is the best place to live in?', 8.168637037277222, 0.0), ('Elon musk', 0.7207489013671875, 0.58), ('How do you breed flowers?', 1.0979220867156982, 0.04)]

0.5334666666666666

2.731794253985087

טסט 11- עם התחשבות בבודי גם במילה אחת- שמשקל קטן יותר

[('best marvel movie', 4.201518535614014, 0.612), ('How do kids come to world?', 5.929375171661377, 0.05), ('Information retrieval', 1.6588754653930664, 0.683), ('LinkedIn', 0.40009164810180664, 1.0), ('How to make coffee?', 2.207642078399658, 0.452), ('Ritalin', 0.35256457328796387, 0.789), ('How to make wine at home?', 4.7002105712890625, 0.628), ('Most expensive city in the world', 8.232600450515747, 0.293), ('India', 1.196563959121704, 0.622), ('how to make money fast?', 3.4183175563812256, 0.537), ('Netflix', 0.4770641326904297, 1.0), ('Apple computer', 1.2701630592346191, 0.761), ('The Simpsons', 0.39844179153442383, 0.529), ('World cup', 5.51264500617981, 1.0), ('How to lose weight?', 1.116861343383789, 0.322), ('Java', 0.4028961658477783, 0.913), ('Air Jordan', 2.1472387313842773, 0.199), ('how to deal with depression?', 1.2463722229003906, 0.333), ('How do you make gold', 2.9334051609039307, 0.29), ('Marijuana', 0.3888359069824219, 0.317), ('How to make hummus', 1.9730148315429688, 0.649), ('Winter', 0.8929264545440674, 0.44), ('Rick and Morty', 0.8881173133850098, 0.381), ('Natural Language processing', 2.8715872764587402, 0.693), ('World Cup 2022', 6.117698669433594, 0.61), ('Dolly the sheep', 0.9665400981903076, 0.265), ('Cigarettes', 0.31658029556274414, 0.489), ('What is the best place to live in?', 6.649957656860352, 0.0), ('Elon musk', 0.6912965774536133, 0.635), ('How do you breed flowers?', 0.8114120960235596, 0.04)]

0.5177333333333333

2.345693826675415

טסט 12- עם סטמינג שיפור ל10:

[('best marvel movie', 4.218786001205444, 0.631), ('How do kids come to world?', 6.32642126083374, 0.053), ('Information retrieval', 1.802762746810913, 0.432), ('LinkedIn', 0.42225003242492676, 1.0), ('How to make coffee?', 2.489720344543457, 0.443), ('Ritalin', 0.4925358295440674, 0.806), ('How to make wine at home?', 5.148111820220947, 0.628), ('Most expensive city in the world', 8.9938383102417, 0.293), ('India', 1.4087679386138916, 0.742), ('how to make money fast?', 3.60056209564209, 0.557), ('Netflix', 0.665715217590332, 1.0), ('Apple computer', 1.4181735515594482, 0.726), ('The Simpsons', 0.5191836357116699, 0.371), ('World cup', 6.230295419692993, 1.0), ('How to lose weight?', 1.3061397075653076, 0.322), ('Java', 0.452164888381958, 0.703), ('Air Jordan', 2.263036012649536, 0.196), ('how to deal with depression?', 1.4147474765777588, 0.306), ('How do you make gold', 3.3201541900634766, 0.288), ('Marijuana', 0.5753045082092285, 0.69), ('How to make hummus', 2.161459445953369, 0.649), ('Winter', 1.0751323699951172, 0.409), ('Rick and Morty', 1.008596420288086, 1.0), ('Natural Language processing', 2.9193453788757324, 0.717), ('World Cup 2022', 6.771752834320068, 0.62), ('Dolly the sheep', 0.8610918521881104, 0.28), ('Cigarettes', 0.31727170944213867, 0.724), ('What is the best place to live in?', 7.489948749542236, 0.0), ('Elon musk', 0.8721354007720947, 0.58), ('How do you breed flowers?', 1.072209119796753, 0.04)]

0.5401999999999999

2.5872538089752197

טסט 13:

[('best marvel movie', 4.4920549392700195, 0.636), ('How do kids come to world?', 6.556846618652344, 0.088), ('Information retrieval', 1.8711113929748535, 0.432), ('LinkedIn', 0.48068666458129883, 1.0), ('How to make coffee?', 2.634488821029663, 0.439), ('Ritalin', 0.5486080646514893, 0.806), ('How to make wine at home?', 5.21096134185791, 0.628), ('Most expensive city in the world', 8.794284105300903, 0.293), ('India', 1.4614133834838867, 0.742), ('how to make money fast?', 3.505335569381714, 0.876), ('Netflix', 0.5050976276397705, 1.0), ('Apple computer', 1.5359649658203125, 0.726), ('The Simpsons', 0.5698513984680176, 0.371), ('World cup', 6.1554954051971436, 1.0), ('How to lose weight?', 1.4261462688446045, 0.316), ('Java', 0.4874541759490967, 0.703), ('Air Jordan', 2.304466485977173, 0.196), ('how to deal with depression?', 1.5027315616607666, 0.306), ('How do you make gold', 3.3919239044189453, 0.288), ('Marijuana', 0.6821112632751465, 0.69), ('How to make hummus', 2.212247133255005, 0.656), ('Winter', 1.1322669982910156, 0.409), ('Rick and Morty', 0.9928808212280273, 0.75), ('Natural Language processing', 3.023909091949463, 0.717), ('World Cup 2022', 6.621730804443359, 0.714), ('Dolly the sheep', 1.0790352821350098, 0.305), ('Cigarettes', 0.3593146800994873, 0.724), ('What is the best place to live in?', 7.408155202865601, 0.0), ('Elon musk', 0.8680706024169922, 0.419), ('How do you breed flowers?', 1.0633106231689453, 0.034)]

0.5421333333333334

2.6292651732762655

טסט 14: נתינת משקל k=1.1, b=0.9

[('best marvel movie', 3.9722390174865723, 0.627), ('How do kids come to world?', 6.1639368534088135, 0.067), ('Information retrieval', 1.6878530979156494, 0.517), ('LinkedIn', 0.4592103958129883, 1.0), ('How to make coffee?', 2.3031678199768066, 0.499), ('Ritalin', 0.4316282272338867, 0.806), ('How to make wine at home?', 4.87837553024292, 0.394), ('Most expensive city in the world', 8.74090051651001, 1.0), ('India', 1.4355583190917969, 0.742), ('how to make money fast?', 3.3306641578674316, 1.0), ('Netflix', 0.48603010177612305, 1.0), ('Apple computer', 1.4376764297485352, 0.653), ('The Simpsons', 0.4989147186279297, 0.371), ('World cup', 5.96829628944397, 0.643), ('How to lose weight?', 1.186455249786377, 0.216), ('Java', 0.45559215545654297, 0.703), ('Air Jordan', 2.1682040691375732, 0.227), ('how to deal with depression?', 1.301429033279419, 0.31), ('How do you make gold', 3.0936269760131836, 0.46), ('Marijuana', 0.3978114128112793, 0.69), ('How to make hummus', 1.9875962734222412, 0.662), ('Winter', 0.9367456436157227, 0.409), ('Rick and Morty', 0.9303531646728516, 0.6), ('Natural Language processing', 2.7684991359710693, 0.844), ('World Cup 2022', 6.482793569564819, 0.693), ('Dolly the sheep', 0.9726693630218506, 0.289), ('Cigarettes', 0.2758750915527344, 0.724), ('What is the best place to live in?', 7.122334957122803, 0.0), ('Elon musk', 0.7660603523254395, 0.457), ('How do you breed flowers?', 0.9151110649108887, 0.085)]

[('best marvel movie', 4.407855272293091, 0.636), ('How do kids come to world?', 6.545346736907959, 0.088), ('Information retrieval', 1.7515039443969727, 0.432), ('LinkedIn', 0.5956606864929199, 1.0), ('How to make coffee?', 2.464337110519409, 0.439), ('Ritalin', 0.4323313236236572, 0.806), ('How to make wine at home?', 5.196748733520508, 0.628), ('Most expensive city in the world', 9.74299669265747, 0.293), ('India', 1.4834649562835693, 0.742), ('how to make money fast?', 3.6006243228912354, 0.876), ('Netflix', 0.47488975524902344, 1.0), ('Apple computer', 1.4557299613952637, 0.726), ('The Simpsons', 0.393019437789917, 0.371), ('World cup', 6.295585870742798, 1.0), ('How to lose weight?', 1.2244904041290283, 0.316), ('Java', 0.6588461399078369, 0.703), ('Air Jordan', 2.1630704402923584, 0.196), ('how to deal with depression?', 1.3327140808105469, 0.306), ('How do you make gold', 3.2953507900238037, 0.288), ('Marijuana', 0.4343900680541992, 0.69), ('How to make hummus', 2.0743556022644043, 0.656), ('Winter', 1.019860029220581, 0.409), ('Rick and Morty', 0.8980085849761963, 0.75), ('Natural Language processing', 2.96061110496521, 0.717), ('World Cup 2022', 6.751912593841553, 0.714), ('Dolly the sheep', 0.8784255981445312, 0.305), ('Cigarettes', 0.29111146926879883, 0.724), ('What is the best place to live in?', 8.024124145507812, 0.0), ('Elon musk', 0.7707183361053467, 0.419), ('How do you breed flowers?', 0.98514723777771, 0.034)]

0.5562666666666668

2.451853632926941

טסט 15: k=1.15, b=0.85

[('best marvel movie', 4.225495100021362, 0.696), ('How do kids come to world?', 6.06597113609314, 0.054), ('Information retrieval', 1.87186598777771, 0.487), ('LinkedIn', 0.5866069793701172, 1.0), ('How to make coffee?', 2.4140684604644775, 0.498), ('Ritalin', 0.5031156539916992, 0.806), ('How to make wine at home?', 4.7800750732421875, 0.478), ('Most expensive city in the world', 8.478177309036255, 0.545), ('India', 1.3532977104187012, 0.742), ('how to make money fast?', 3.578096628189087, 1.0), ('Netflix', 0.5007712841033936, 1.0), ('Apple computer', 1.2684283256530762, 0.66), ('The Simpsons', 0.5242581367492676, 0.371), ('World cup', 5.809601545333862, 1.0), ('How to lose weight?', 1.3130426406860352, 0.211), ('Java', 0.48471522331237793, 0.703), ('Air Jordan', 2.025529146194458, 0.22), ('how to deal with depression?', 1.3479931354522705, 0.31), ('How do you make gold', 3.2198827266693115, 0.303), ('Marijuana', 0.4096872806549072, 0.69), ('How to make hummus', 2.0757198333740234, 0.659), ('Winter', 1.0759432315826416, 0.409), ('Rick and Morty', 0.8331215381622314, 0.593), ('Natural Language processing', 2.863189220428467, 0.759), ('World Cup 2022', 6.247386455535889, 0.702), ('Dolly the sheep', 0.8292810916900635, 0.295), ('Cigarettes', 0.28594517707824707, 0.724), ('What is the best place to live in?', 6.905599355697632, 0.0), ('Elon musk', 0.7351970672607422, 0.449), ('How do you breed flowers?', 0.999753475189209, 0.076)]

0.5480000000000002

2.453727197647095